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LOGINID: SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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* * * * * * * * * *
                      Welcome to STN International
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                  Web Page for STN Seminar Schedule - N. America
NEWS
NEWS
         JUL 28
                  CA/CAplus patent coverage enhanced
NEWS
         JUL 28
                  EPFULL enhanced with additional legal status
                  information from the epoline Register
                  IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
         JUL 28
NEWS
         JUL 28
                  STN Viewer performance improved
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                  INPADOCDB and INPAFAMDB coverage enhanced
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      6
NEWS
      7
         AUG 13
                  CA/CAplus enhanced with printed Chemical Abstracts
                  page images from 1967-1998
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      8
         AUG 15
                  CAOLD to be discontinued on December 31, 2008
         AUG 15
NEWS
      9
                  CAplus currency for Korean patents enhanced
NEWS 10
         AUG 27
                  CAS definition of basic patents expanded to ensure
                  comprehensive access to substance and sequence
                  information
         SEP 18
NEWS 11
                  Support for STN Express, Versions 6.01 and earlier,
                  to be discontinued
                  CA/CAplus current-awareness alert options enhanced
NEWS 12
         SEP 25
                  to accommodate supplemental CAS indexing of
                  exemplified prophetic substances
                  {\tt WPIDS},\ {\tt WPINDEX},\ {\tt and}\ {\tt WPIX}\ {\tt coverage}\ {\tt of}\ {\tt Chinese}\ {\tt and}
NEWS 13
         SEP 26
                  and Korean patents enhanced
NEWS 14
         SEP 29
                  IFICLS enhanced with new super search field
NEWS 15
         SEP 29
                  EMBASE and EMBAL enhanced with new search and
                  display fields
NEWS 16
          SEP 30
                  CAS patent coverage enhanced to include exemplified
                  prophetic substances identified in new Japanese-
                  language patents
NEWS 17
         OCT 07
                  EPFULL enhanced with full implementation of EPC2000
NEWS 18
         OCT 07
                  Multiple databases enhanced for more flexible patent
                  number searching
NEWS 19
         OCT 22
                  Current-awareness alert (SDI) setup and editing
                  enhanced
         OCT 22
                  WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
NEWS 20
                  Applications
         OCT 24
NEWS 21
                  CHEMLIST enhanced with intermediate list of
                  pre-registered REACH substances
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.
NEWS HOURS
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=> file reg

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SINCE FILE TOTAL ENTRY SESSION

0.21

0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 07:06:19 ON 14 NOV 2008
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http://www.cas.org/support/stngen/stndoc/properties.html

=> logoff hold

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SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

0.46 0.67

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:06:28 ON 14 NOV 2008

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* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * * SESSION RESUMED IN FILE 'REGISTRY' AT 07:31:29 ON 14 NOV 2008 FILE 'REGISTRY' ENTERED AT 07:31:29 ON 14 NOV 2008 COPYRIGHT (C) 2008 American Chemical Society (ACS)

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.46 0.67

FULL ESTIMATED COST

=>

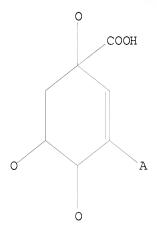
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10565348\10565348 RCE core.str

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 11 sss sam

SAMPLE SEARCH INITIATED 07:32:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 252 TO ITERATE

100.0% PROCESSED 252 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 4088 TO 5992
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> search l1 sss full

FULL SEARCH INITIATED 07:32:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4961 TO ITERATE

100.0% PROCESSED 4961 ITERATIONS

18 ANSWERS

SEARCH TIME: 00.00.01

L3 18 SEA SSS FUL L1

=> d scan

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(phosphonooxy)methyl]-

, (1R, 4R, 5R) -

MF C8 H13 O9 P

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):18

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-

[[(phenylmethyl)amino]carbonyl]-, (1R, 4R, 5R)-

MF C15 H17 N O6

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[[(2-phenylethyl)amino]carbonyl]-, (1R,4R,5R)-

MF C16 H19 N O6

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[[(2-phenoxyethyl)amino]carbonyl]-, (1R,4R,5R)-

MF C16 H19 N O7

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-oxo-3-[(phenylmethyl)amino]-1-propen-1-yl]-, (1R,4R,5R)-

MF C17 H19 N O6

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-oxo-3-(phenylamino)-1-propen-1-yl]-, (1R,4R,5R)-

MF C16 H17 N O6

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-

(phenylsulfonyl)-1-propen-1-yl]-, (1R,4R,5R)-

MF C16 H18 O7 S

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-hydroxy-1-propen-1-y1]-, (1R, 4R, 5R)-

MF C10 H14 O6

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-[4-(trifluoromethyl)phenoxy]-1-propen-1-yl]-, (1R,4R,5R)-

MF C17 H17 F3 O6

Absolute stereochemistry.

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 3-[(1E)-3-(4-fluorophenoxy)-1-propen-1y1]-1,4,5-trihydroxy-, (1R,4R,5R)-

MF C16 H17 F O6

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

REGISTRY COPYRIGHT 2008 ACS on STN L3 18 ANSWERS

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-phenoxy-1propen-1-y1]-, (1R, 4R, 5R)-

C16 H18 O6 MF

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

2-Cyclohexene-1-carboxylic acid, 3-[(1E)-2-carboxyethenyl]-1,4,5-ΙN triĥydroxy-, (1R,4R,5R)-C10 H12 O7

MF

Absolute stereochemistry. Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 3-[[(1,1-dimethylethyl)amino]carbonyl]1,4,5-trihydroxy-, (1R,4R,5R)-

MF C12 H19 N O6

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 1-Cyclohexene-1,3-dicarboxylic acid, 3,5,6-trihydroxy-, (3R,5R,6R)-

MF C8 H10 O7

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 3-fluoro-1,4,5-trihydroxy-, (1R,4S,5R)-

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-(2-phosphonoethyl)-, (1R,4R,5R)-

MF C9 H15 O8 P

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-(phosphonomethyl)-, (1R,4R,5R)-

MF C8 H13 O8 P

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Propanedioic acid, 2-[[(3R,5R,6R)-3-carboxy-3,5,6-trihydroxy-1-cyclohexen1-y1]methy1]-

MF C11 H14 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 181.12 181.33

FILE 'CAPLUS' ENTERED AT 07:35:35 ON 14 NOV 2008
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(anhydroquinate inhibitors of type II dehydroquinase)

946535-04-2P 946535-05-3P 946535-06-4P 946535-07-5P

87605-11-6P 119649-71-7P

946534-96-9P

946535-01-9P

155197-78-7P

946534-98-1P

946535-03-1P

946535-08-6P

946534-97-0P

946535-02-0P

74141-12-1P

946534-95-8P

946535-00-8P

ΤТ

7341-97-1P

946534-94-7P

94**653**4-99-2P

946535-09-7P 946535-10-0P 946535-11-1P 946535-12-2P 946535-13-3P 946535-14-4P 946535-15-5P 946535-16-6P 946535-17-7P 946535-18-8P 94**6535**-19-9P 946535-20-2P 946535-21-3P 946535-22-4P 946535-23-5P 946535-28-0P 946535-25-7P 946535-26-8P 946535-27-9P 946535-24-6P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(anhydroquinate inhibitors of type II dehydroquinase)

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Nanomolar inhibition of type II dehydroquinase based on the enolate reaction mechanism
- AN 2007:341043 CAPLUS <<LOGINID::20081114>>
- DN 147:671
- ${\tt TI}$ Nanomolar inhibition of type ${\tt II}$ dehydroquinase based on the enolate reaction mechanism
- AU Toscano, Miguel D.; Payne, Richard J.; Chiba, Akira; Kerbarh, Olivier; Abell, Chris
- CS Department of Chemistry, University Chemical Laboratory, University of Cambridge, Cambridge, CB2 1EW, UK
- SO ChemMedChem (2007), 2(1), 101-112 CODEN: CHEMGX; ISSN: 1860-7179
- PB Wiley-VCH Verlag GmbH & Co. KGaA
- DT Journal
- LA English
- OS CASREACT 147:671

GI

- AB The authors describe the rational design of a novel, highly potent inhibitor of type II dehydroquinase, the dicarboxylate (I). The incorporation of a carboxylate at the 3-position mimics the putative enclate intermediate in the reaction mechanism, and allows a potential electrostatic binding interaction with the arginine on the active site flap. This results in a 1000-fold increase in potency, making the dicarboxylate I the most potent inhibitor of type II dehydroquinase reported to date, with a high ligand efficiency of -0.68 kcal mol-1 per nonhydrogen atom. The systematic dissection of I in compds. 7-12, all of which show a drop in potency, confirm the synergistic importance of the two carboxylates, the C3 and C4 hydroxyl groups, and the anhydroquinate ring structure for the potency of I.
- IT Structure-activity relationship

(enzyme-inhibiting; nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

IT Drug design
Molecular association
Molecular modeling
Mycobacterium tuberculosis

Streptomyces coelicolor

(nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

IT Conformation

(protein; nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

IT 937183-95-4P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

IT 937183-96-5P 937183-97-6P 937183-98-7P 937183-99-8P

937184-00-4P 937184-01-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

TT 75-64-9, tert-Butylamine, reactions 109-87-5, Dimethoxymethane 600-22-6, Methyl pyruvate 688-73-3, Tributyltin hydride 813-19-4, Bistributyltin 922-67-8 6089-04-9 7677-24-9, Trimethylsilylcyanide 18448-47-0, Methyl cyclohexene-1-carboxylate 937184-03-7 RL: RCT (Reactant); RACT (Reactant or reagent)

(nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

54396-74-6P 135714-31-7P 189366-37-8P 937184-02-6P 937184-04-8P ΤТ 937184-08-2P 937184-09-3P 937184-05-9P 937184-06-0P 937184-10-6P 937184-11-7P 937184-12-8P 937184-13-9P 937184-14-0P 937184-15-1P 937184-16-2P 937184-18-4P 937184-19-5P 937184-20-8P 937184-21-9P 937184-22-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

IT 937184-17-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

IT 9012-66-2, Dehydroquinase

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(type II, inhibitors; nanomolar inhibition of type II dehydroquinase based on enolate reaction mechanism)

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Hot off the press
- AN 2004:746639 CAPLUS <<LOGINID::20081114>>
- DN 142:350581
- TI Hot off the press
- AU Hill, Robert A.; Sutherland, Andrew
- CS Department of Chemistry, Glasgow University, Glasgow, G12 8QQ, UK
- SO Natural Product Reports (2004), 21(4), H13-H15 CODEN: NPRRDF; ISSN: 0265-0568
- PB Royal Society of Chemistry
- DT Journal; General Review
- LA English
- AB A review covering a selection of 36 recent papers is presented the examines various aspects of current developments in bioorg, chemical and

novel natural products such as bielschowskyin which has a novel diterpenoid framework and shows antimalarial and anticancer activity. ΤТ Natural products RL: BIOL (Biological study); OCCU (Occurrence); USES (Uses) (current developments in bioorg. chemical and novel natural products) 10606-72-1P 128946-78-1P 178948-66-8P ΙT RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (current developments in bioorg, chemical and novel natural products) 50-99-7, D-Glucose, biological studies 1603-79-8 71155-04-9 ΙT 72909-34-3, Pyrroloquinoline quinone 108605-69-2, Avenanthramide B 697299-12-0 486430-83-5 RL: BSU (Biological study, unclassified); BIOL (Biological study) (current developments in bioorg. chemical and novel natural products) ΙT 51532-30-0, (S)-4-Methyl-3-heptanone 149008-32-2, Phomacta-1(14),3,7-triene 689285-37-8, Mikamicranolide 694440-86-3, Clionastatin A 694440-87-4, Clionastatin B 701203-40-9, Corianlactone 714954-37-7, Psymberin 719296-43-2, Carijenone 719298-06-3, 720681-08-3, Stolonilactone 720681-62-9, Bisavenanthramide B 720685-82-5, Sequosempervirin A Oxaspirosuberitenone 742088-25-1, Gymnorrhizol 790710-32-6, Spirodepressolide RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence) (current developments in bioorg. chemical and novel natural products) ΙT 697298-90-1, Bielschowskysin RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (current developments in bioorg. chemical and novel natural products) 677025-48-8, Menisporopsin A 681456-07-5 682334-57-2, ΤТ Brasilienosophyllic acid A 725254-09-1, Abyssomicin C RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (current developments in bioorg. chemical and novel natural products) ΙT 339541-50-3, Prerapamycin 360555-98-2, Spongidepsin RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); BIOL (Biological study); OCCU (Occurrence) (current developments in bioorg. chemical and novel natural products) L4ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN ΤI (1R, 4S, 5R) -3-Fluoro-1, 4,5-trihydroxy-2-cyclohexene-1-carboxylic acid: the fluoro analogue of the enolate intermediate in the reaction catalyzed by type II dehydroquinases 2004:422880 CAPLUS <<LOGINID::20081114>> ΑN DN 141:140692 ΤI (1R, 4S, 5R) - 3-Fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-carboxylic acid: the fluoro analogue of the enolate intermediate in the reaction catalyzed by type II dehydroquinases Frederickson, Martyn; Roszak, Aleksander W.; Coggins, John R.; Lapthorn, ΑU Adrian J.; Abell, Chris University Chemical Laboratory, Cambridge, CB2 1EW, UK CS Organic & Biomolecular Chemistry (2004), 2(11), 1592-1596 SO CODEN: OBCRAK; ISSN: 1477-0520 РΒ Royal Society of Chemistry DT Journal LA English OS CASREACT 141:140692 AΒ The fluoro analog of the enolate intermediate in the reaction catalyzed by

type II dehydroquinases has been prepared from naturally occurring

(-)-quinic acid over seven steps and has been shown to be the most potent

```
inhibitor reported to date of the type II enzyme from Mycobacterium
     tuberculosis.
     Cyclitols
ΤТ
     RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
     BIOL (Biological study); PREP (Preparation)
        (fluoro; preparation of
(1R, 4S, 5R) -3-fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroguinases)
     Mycobacterium tuberculosis
ΙT
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4,5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroquinases)
ΙT
     9012-66-2
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4,5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroquinases)
     13019-10-8P 486430-83-5P
                                486430-84-6P
ΤT
     RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
     BIOL (Biological study); PREP (Preparation)
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroquinases)
ΙT
     177284-79-6P
                   725738-25-0P
     RL: PNU (Preparation, unclassified); PREP (Preparation)
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroquinases)
                                177284-85-4
     77-95-2, (-)-Quinic acid
ΤТ
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4,5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroquinases)
ΙT
     176798-26-8P
                   183474-88-6P
                                   183475-04-9P
                                                   486430-85-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroguinases)
ΙT
     177284-86-5P
                    177284-87-6P
                                   486430-86-8P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of (1R, 4S, 5R)-3-fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-
        carboxylic acid analogs and their inhibition of bacterial
        dehydroquinases)
              THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 38
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
L4
     Vinyl fluoride as an isoelectronic replacement for an enolate anion:
TI
     Inhibition of type II dehydroquinases
     2002:647422 CAPLUS <<LOGINID::20081114>>
ΑN
DN
     138:102740
     Vinyl fluoride as an isoelectronic replacement for an enolate anion:
ΤI
     Inhibition of type II dehydroquinases
     Frederickson, Martyn; Coggins, John R.; Abell, Chris
ΑU
CS
     University Chemical Laboratory, Cambridge, CB2 1EW, UK
SO
     Chemical Communications (Cambridge, United Kingdom) (2002), (17),
     1886-1887
     CODEN: CHCOFS; ISSN: 1359-7345
PΒ
     Royal Society of Chemistry
```

- DT Journal
- LA English
- OS CASREACT 138:102740
- AB A vinyl fluoride analog of the intermediate in the reaction catalyzed by type II dehydroquinase enzymes has been synthesized over seven steps from (-)-quinic acid and shown to be a potent enzyme inhibitor.
- IT Enzyme kinetics

(of inhibition; vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroguinases)

IT Crystal structure

(vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroquinases)

IT 486430-86-8P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(crystal structure properties; vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroquinases)

IT 486430-83-5P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroquinases)

IT 77-95-2, (-)-Quinic acid 109-87-5 149-73-5 176798-33-7 227002-11-1 RL: RCT (Reactant); RACT (Reactant or reagent)

(vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroquinases)

IT 176798-26-8P 183474-88-6P 183475-04-9P 486430-85-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroquinases)

IT 486430-84-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroquinases)

IT 9012-66-2, E.C. 4.2.1.10

RL: BSU (Biological study, unclassified); BIOL (Biological study) (vinyl fluoride as an isoelectronic replacement for an enolate anion: inhibition of type II dehydroquinases)

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Cyclohexenyl and Cyclohexylidene Inhibitors of 3-Dehydroquinate Synthase: Active Site Interactions Relevant to Enzyme Mechanism and Inhibitor Design
- AN 1997:528717 CAPLUS <<LOGINID::20081114>>
- DN 127:216861

OREF 127:42125a,42128a

- TI Cyclohexenyl and Cyclohexylidene Inhibitors of 3-Dehydroquinate Synthase: Active Site Interactions Relevant to Enzyme Mechanism and Inhibitor Design
- AU Montchamp, Jean-Luc; Frost, J. W.
- CS Contribution from the Department of Chemistry, Michigan State University, East Lansing, MI, 48824, USA
- SO Journal of the American Chemical Society (1997), 119(33), 7645-7653 CODEN: JACSAT; ISSN: 0002-7863
- PB American Chemical Society
- DT Journal
- LA English
- AB Cyclohexenyl and cyclohexylidene inhibitors possessing strategically placed olefinic residues, in general, bind to 3-dehydroguinate (DHQ)

synthase more tightly than similarly substituted cyclohexyl inhibitors. All of the newly synthesized inhibitors were prepared from a common DHQ derivative Cyclohexenyl phosphate 1 is the most potent inhibitor of DHQ synthase thus far identified with an inhibition constant (Ki = 1.2+10-10 M), indicating active site binding 1000-fold tighter relative to the corresponding cyclohexyl phosphate 5. Cyclohexenyl tricarboxylate 2 binds 700-fold more tightly than similarly substituted cyclohexyl tricarboxylate 6 and is the first example of a nanomolar-level inhibitor (Ki = 8.6+10-9 M) possessing neither a phosphate monoester or a phosphonic acid. Cyclohexenyl homophosphonate 4 (Ki = 3.0+10-8M) and cyclohexylidene homophosphonate 10 (Ki = 3.2+10-9 M) bind 57and 530-fold, resp., more tightly than the corresponding cyclohexyl homophosphonate 8. Cyclohexylidene homophosphonate 10 is the first example of a nanomolar-level, homophosphonic acid inhibitor of DHQ synthase. Cyclohexylidene phosphonate 9 (Ki = 2.9+10-10 M) is a 2.9-fold more potent inhibitor relative to cyclohexyl phosphonate 7 which was previously the most potent, slowly-reversible inhibitor of DHQ synthase. Cyclohexenyl phosphonate 3 (Ki = 1.2+10-9 M) is the only olefin-containing, carbocyclic inhibitor where improved binding over the corresponding cyclohexyl analog was not observed The impact of olefinic residues in inhibitors on active site binding may indicate that DHQ synthase plays an active catalytic role during Elcb elimination of inorg. phosphate from enzyme-bound substrate.

IT Enzyme kinetics

(design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

IT Structure-activity relationship

(enzyme-inhibiting, 3-dehydroquinate synthase; design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

IT 119480-86-3 119480-87-4 123075-71-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

IT 194998-86-2P 194998-87-3P 194998-88-4P

194998-89-5P 194998-90-8P 194998-91-9P 194998-92-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

IT 37211-77-1, 3-Dehydroquinate synthase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

IT 77-95-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

TΤ 176798-26-8P 183474-88-6P 194998-93-1P 194998-94-2P 194998-95-3P 194998-96-4P 194998-97-5P 194998-98-6P 194998-99-7P 194999-00-3P 194999-01-4P 194999-02-5P 194999-03-6P 194999-04-7P 194999-05-8P 194999-06-9P 194999-07-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(design and preparation of cyclohexenyl and cyclohexylidene inhibitors of 3-dehydroquinate synthase)

RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> 486430-83-5

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L6 3 L5

=> display hitstr 16 1-3

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

IT 486430-83-5

RL: BSU (Biological study, unclassified); BIOL (Biological study) (current developments in bioorg. chemical and novel natural products)

RN 486430-83-5 CAPLUS

CN 2-Cyclohexene-1-carboxylic acid, 3-fluoro-1,4,5-trihydroxy-, (1R,4S,5R)-(CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

IT 486430-83-5P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (1R, 4S, 5R)-3-fluoro-1, 4, 5-trihydroxy-2-cyclohexene-1-carboxylic acid analogs and their inhibition of bacterial dehydroquinases)

RN 486430-83-5 CAPLUS

CN 2-Cyclohexene-1-carboxylic acid, 3-fluoro-1,4,5-trihydroxy-, (1R,4S,5R)-(CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

IT 486430-83-5P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(vinyl fluoride analog as isoelectronic replacement for an enolate anion and inhibitor of type II dehydroguinases)

RN 486430-83-5 CAPLUS

CN 2-Cyclohexene-1-carboxylic acid, 3-fluoro-1,4,5-trihydroxy-, (1R,4S,5R)-(CA INDEX NAME)

Absolute stereochemistry.

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=> e 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-((1E)-3-hydroxy-1-propen-1-yl)-, (1R,4R,5R)-/cn

E1	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-
	(4-(TRIFLUOROMETHYL)PHENOXY)-1-PROPEN-1-YL)-, (1R, 4R, 5R)-/CN
E2	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-
	(PHENYLSULFONYL)-1-PROPEN-1-YL)-, (1R, 4R, 5R)-/CN
E3	1> 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-
	HYDROXY-1-PROPEN-1-YL)-, $(1R, 4R, 5R)-/CN$
E 4	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-
	OXO-3-(PHENYLMETHYL)AMINO)-1-PROPEN-1-YL)-, (1R, 4R, 5R)-/CN
E5	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-
	OXO-3-(PHENYLAMINO)-1-PROPEN-1-YL)-, (1R, 4R, 5R)-/CN
E6	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-
	PHENOXY-1-PROPEN-1-YL)-, $(1R, 4R, 5R)$ -/CN
E7	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((PHOSPH
	ONOOXY) METHYL) -, (1R, 4R, 5R) -/CN
E8	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((PHOSPH
	ONOOXY) METHYL) -, (1R-(1A, 4A, 5B)) -/CN
E9	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-(1-(PHEN
	YLMETHYL)-1H-1,2,3-TRIAZOL-4-YL)-, (1R,4R,5R)-/CN
E10	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-(1H-1,2,
	3-TRIAZOL-5-YL)-, (1R, 4R, 5R)-/CN
E11	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-(1H-INDO
	L-6-YL)-, (1R, 4R, 5R)-/CN
E12	1 2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-(2-NAPHT
	HALENYL)-, (1R, 4R, 5R)-/CN
=> e3	
1.7	1 "2-CYCLOHEXENE-1-CARBOXYLIC ACID, 1,4,5-TRIHYDROXY-3-((1E)-3-HYD
	ROXY-1-PROPEN-1-YL)-, (1R, 4R, 5R)-"/CN

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 946534-87-8 REGISTRY

ED Entered STN: 10 Sep 2007

CN 2-Cyclohexene-1-carboxylic acid, 1,4,5-trihydroxy-3-[(1E)-3-hydroxy-1-propen-1-yl]-, (1R,4R,5R)- (CA INDEX NAME)

FS STEREOSEARCH

MF C10 H14 O6

SR CA

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> 17

L8 1 L7

=> d 18 ti fbib abs it

- L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Rational design, synthesis, and evaluation of nanomolar type II dehydroquinase inhibitors
- AN 2007:808773 CAPLUS <<LOGINID::20081114>>
- DN 147:268289
- TI Rational design, synthesis, and evaluation of nanomolar type II dehydroquinase inhibitors
- AU Payne, Richard J.; Peyrot, Fabienne; Kerbarh, Olivier; Abell, Andrew D.; Abell, Chris
- CS Department of Chemistry, University of Cambridge, Cambridge, CB2 1EW, UK
- SO ChemMedChem (2007), 2(7), 1015-1029 CODEN: CHEMGX; ISSN: 1860-7179
- PB Wiley-VCH Verlag GmbH & Co. KGaA

```
DT
    Journal
LA
    English
OS
    CASREACT 147:268289
    The in silico design, synthesis, and biol. evaluation of ten potent type
AB
    II dehydroquinase inhibitors are described. These compds. contain an
    anhydroquinate core, incorporated as a mimic of the enolate reaction
    intermediate. This substructure is attached by a variety of linking units
    to a terminal Ph group that binds in an adjacent pocket. Inhibitors were
    synthesized from (-)-quinic acid using palladium-catalyzed Stille and
    carboamidation chemical Several inhibitors exhibited nanomolar inhibition
    consts. against type II dehydroquinases from Streptomyces coelicolor and
    Mycobacterium tuberculosis. These are among the most potent inhibitors of
    these enzymes reported to date.
ΙT
    Molecular modeling
    Mycobacterium tuberculosis
    Streptomyces coelicolor
    Structure-activity relationship
        (anhydroquinate inhibitors of type II dehydroquinase)
ΤT
    9012-66-2, Dehydroquinase
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (anhydroquinate inhibitors of type II dehydroquinase)
ΙT
    946534-84-5P
                  946534-85-6P
                                  946534-86-7P 946534-87-8P
    946534-88-9P
                   946534-89-0P
                                  946534-90-3P
                                                946534-91-4P
                                                               946534-92-5P
    946534-93-6P
    RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (anhydroquinate inhibitors of type II dehydroquinase)
ΙT
    62-53-3, Aniline, reactions 64-04-0, Phenethylamine
                                                          100-46-9,
    Benzylamine, reactions 371-41-5, p-Fluorophenol
                                                      402-45-9,
                            471-25-0, 2-Propynoic acid 688-73-3, Tributyl
    p-Trifluoromethylphenol
    tin hydride 813-19-4, Bis(tributyltin) 873-55-2, Sodium
    phenylsulfinate 1758-46-9, 2-Phenoxyethylamine
                                                      13610-02-1
                                                                   82101-74-4
    937184-02-6
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (anhydroquinate inhibitors of type II dehydroquinase)
ΤТ
    7341-97-1P 74141-12-1P
                             87605-11-6P 119649-71-7P 155197-78-7P
    946534-94-7P
                   946534-95-8P
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    946534-99-2P 946535-00-8P 946535-01-9P 946535-02-0P
                                                             946535-03-1P
    946535-04-2P 946535-05-3P 946535-06-4P 946535-07-5P 946535-08-6P
    946535-09-7P 946535-10-0P 946535-11-1P 946535-12-2P 946535-13-3P
    946535-14-4P 946535-15-5P 946535-16-6P 946535-17-7P 946535-18-8P
    946535-19-9P
                   946535-20-2P 946535-21-3P 946535-22-4P 946535-23-5P
    946535-24-6P 946535-25-7P 946535-26-8P 946535-27-9P 946535-28-0P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (anhydroquinate inhibitors of type II dehydroquinase)
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(anhydroquinate inhibitors of type II dehydroquinase)
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